

CLAIM OR CLAIMS

1. A vertical planting system comprising:
 - a plurality of individual substantially identical growing containers each having a bottom wall, outwardly tapered side walls defining a hollow interior and an open top surface;
 - said open top surface of each said container, being defined by the upper margins of said side walls, defining a plurality of discrete radially extending planting areas spaced arcuately apart about a common central upright axis of each of said containers;
 - said top surface of each of said containers having a substantially greater surface area than that of said bottom wall, each said bottom wall of each said containers having a central support pole receiving aperture formed therethrough coaxial with said central upright axis and fluid drainage holes formed therethrough;
 - said containers being vertically stackable and self-aligning one on top of the next to form a growing column supported by an elongated upright support pole driven into the ground and inserted through each said aperture of each of said containers in coaxially alignment with the upright axis;
 - a nutrient and water diffuser box having a bottom wall and upwardly extending side walls and an open top surface, said diffuser box vertically stackable and self aligning atop a top of one of said containers in the growing column, said bottom wall of said diffuser

having a central support pole receiving aperture formed therethrough slidably engaged over an upper end of the support pole, said bottom of said diffuser box also including fluid drainage holes;

a fluid collector having a bottom wall, outwardly tapered side walls and an open top surface structured to supportively receive and be self-aligned with a bottom one of said containers in the growing column, said bottom wall of said fluid collector having a central support pole receiving aperture formed therethrough and slidably engaged over a lower portion of the support pole.

2. A vertical planting system comprising:

a plurality of individual substantially identical molded growing containers each having a bottom wall, outwardly tapered side walls defining a hollow interior adapted to hold growing media therein, and an open top surface;

said open top surface of each said container, being defined by the upper margins of said side walls, defining a plurality of discrete radially extending substantially round planting areas arcuately evenly spaced apart about a central upright axis of each of said containers and extending downwardly into said hollow interior;

said top surface of each of said container having a substantially greater surface area than that of said bottom wall, said bottom wall having a central support pole receiving aperture formed therethrough coaxial

with said central upright axis and fluid drainage holes also formed therethrough;

said containers being vertically stackable and self-aligning one on top of the next to form a vertical growing column supported by an elongated upright support pole driven into the ground for support and inserted through each said aperture of each bottom wall of said containers, each upwardly successive container rotationally offset about the upright axis in self-aligning fashion whereby each of said planting areas is unobstructed for plant growth by said planting areas of the container immediately thereabove;

a nutrient and water diffuser box molded having a bottom wall, upwardly extending side walls and an open top surface, said diffuser box vertically stackable and self aligning atop a top of one of said containers in the growing column, said bottom wall of said diffuser having a central support pole receiving aperture formed therethrough and slidably engaged over an upper end of the support pole, said bottom of said diffuser box also including fluid drainage holes formed therethrough;

a molded fluid funnel having a bottom wall, outwardly tapered side walls and an open top surface structured to supportively receive and be self-aligned beneath a bottom one of said containers in the growing column, said bottom wall of said fluid funnel having a central support

pole receiving aperture formed therethrough which is slidably engaged over a lower portion of the support pole;

a fluid nutrient and water discharge positioned directly above said diffuser box whereby fluid nutrient and water flowing into said diffuser box will drain downwardly through a central portion of growing media in each downwardly successive container, a remainder of fluid nutrient and water flowing from said fluid funnel into the ground.

3. A vertical planting system comprising:

a plurality of individual substantially identical molded as a unit growing containers each having a bottom wall, conical-like upwardly expanding side walls defining a hollow interior holding growing media and an open top surface;

said open top surface of each said container, being defined by the upper margins of said side walls, defining four discrete radially extending substantially round upwardly facing planting areas orthogonally spaced apart one to another about a central upright axis of each of said containers and extending downwardly into said hollow interior;

said top surface of each of said container having a substantially greater area than that of said bottom wall, said bottom wall having a central support pole receiving aperture formed therethrough and fluid drainage holes also formed therethrough;

an elongated upright support pole adapted in length to be driven into the ground for support and having an exposed upright portion thereof;

said containers being vertically stackable one on top of the next in self-aligning fashion to form a vertical growing column supported by said support pole after being driven into the ground and inserted through each said aperture of each of said containers, each upwardly successive container rotationally offset about the axis in top plan view projected area whereby each of said planting areas is unobstructed for plant growth by next above said planting areas;

a nutrient and water diffuser box molded as a unit having a bottom wall, upwardly extending side walls and an open top surface, said diffuser box vertically stackable and self aligning atop a top of one of said containers in the growing column, said bottom wall of said diffuser having a central support pole receiving aperture formed therethrough and slidably engaged over the support pole, said bottom of said diffuser box also including fluid drainage holes formed therethrough;

a fluid funnel molded as a unit having a bottom wall, outwardly tapered side walls and an open top surface structured to supportively receive and be self-aligned directly beneath a bottom one of said containers in the growing column, said bottom wall of said fluid funnel having a central support pole receiving aperture formed therethrough which is slidably engaged over a lower portion of the support pole;

a fluid nutrient and water discharge member positioned directly above said diffuser box whereby fluid nutrient and water flowing from said discharge member into said diffuser box will drain downwardly

through a central portion of growing media in each downwardly successive container, a remainder of fluid nutrient and water flowing from said fluid funnel into the ground.